



SKYLITES • SUNROOMS • RAILINGS

MADE IN AMERICA, BUILT LOCAL
by local employees throughout the regional supply chain

Crystalite is a Northwest Washington manufacturer. Our suppliers are also local businesses and employ local workers. Much of the sand and minerals used in our aluminum and glass components are mined from local quarries.





SAVE ENERGY AND IMPROVE HEALTH AND WELL-BEING

Skylights allow you to enjoy the Sun's natural light in your home. This allows you to use your interior lights less which in turn saves energy and money. A nationwide third party study found that even in a climate like Seattle, students have 7-18% higher test scores in classrooms that optimize sunlight using skylights and windows.

NAMI certified and NFRC rated for thermal performance; U-Factor, SHGC, Visible Light. Unit skylights are NAMI certified to the NAFS Standard (AAMA Testing) per ASTM test methods for air infiltration, water penetration and structural loading.

SKYLIGHTS

Skylights bring warm, glowing natural light into your home or business. CrystalLite's superior quality lets you simply install it and enjoy it... for years of enjoyment.

UNIT SKYLIGHTS

DESIGNED AND BUILT TO BE A WEATHER-PROOF LID OVER A PROPERLY FLASHED CURB



Aluminum Exterior Cap

Bronze or clear anodized finish.
Custom paint available.

Condensation Gutter

Excessive moisture control.
Weeps to the exterior.

High Performance Glazing

Featuring Cardinal IG LoE 366.
Lowest failure rate in the industry.

Welded Interior & Exterior Frames

Weather-tight construction.
Vinyl frame shown. All aluminum options available.



DOMES GLAZING

Glass glazed skylights require at least a 2/12 pitched roof for installation. For flat and low pitched roofs, dome glazing is available in our standard frames (except 5843) and are available in single, double, and triple layers to meet your energy design needs. UV Stabilized, Impact-Modified Acrylic is standard. Co-polyester and polycarbonate is available. Standard colors include clear, white, and bronze. Dome skylights are also available as 'formed pyramids' and as well as in segmented circular frames.



GLASS SKYLIGHTS



5842 PVC / Aluminum Frame

NFRC RATED **ENERGY STAR** **AAMA TESTED**

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.39 | 0.28 | 0.64 |
| Temp / Lam | 0.39 | 0.28 | 0.64 |

| LoE 340 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.39 | 0.19 | 0.38 |
| Temp / Lam | 0.39 | 0.19 | 0.38 |

| LoE 366 + i89 | U-Factor | SHGC | VT |
|---------------|----------|------|------|
| Temp / Temp | 0.33 | 0.28 | 0.64 |
| Temp / Lam | 0.33 | 0.28 | 0.64 |

This is our most common and versatile curb mount frame featuring a PVC interior thermal break and a bronze or clear anodized aluminum cap. Custom sizes are available. High Load glazing available.



3962 Aluminum Frame

NFRC RATED **AAMA TESTED** **PVC FREE**

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.43 | 0.28 | 0.64 |
| Temp / Lam | 0.44 | 0.27 | 0.63 |

Standard aluminum frame, also available as an opener. High Load glazing available.



ES Skylight Aluminum Frames

NFRC RATED **ENERGY STAR** **AAMA TESTED** **PVC FREE**

| LoE 366 | U-Factor | SHGC | VT |
|---------|----------|------|------|
| T/T T/T | 0.28 | 0.20 | 0.47 |
| T/T T/L | 0.28 | 0.20 | 0.46 |

The ES Skylight is a combination of our weather-tight 3962 aluminum frame and the aluminum thermal break Energy Saver (ES) Panel. The ES Panel also blocks the heat-loss through the curb.

ENERGY STAR

| CLIMATE ZONE | U-FACTOR | SHGC |
|---------------|----------|--------|
| North | ≤ 0.45 | Any |
| North Central | ≤ 0.50 | ≤ 0.25 |
| South Central | ≤ 0.50 | ≤ 0.25 |
| Southern | ≤ 0.50 | ≤ 0.25 |

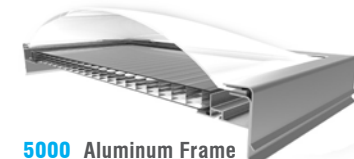
DOMES SKYLIGHTS



5842 PVC / Aluminum Frame

NFRC RATED **AAMA TESTED**

| | U-Factor | SHGC | VT | Color |
|-------------|----------|------|------|-------|
| Double Dome | 0.68 | 0.75 | 0.77 | Clear |
| Double Dome | 0.68 | 0.52 | 0.43 | White |



5000 Aluminum Frame

NFRC RATED **ENERGY STAR** **AAMA TESTED** **PVC FREE**

| | U-Factor | SHGC | VT |
|------------|----------|------|------|
| Dome / MWS | 0.44 | 0.31 | 0.29 |

VT values for domes are not certified due to NFRC Test Procedure limitations.



3962 Aluminum Frame

NFRC RATED **AAMA TESTED** **PVC FREE**

| | U-Factor | SHGC | VT | Color |
|-------------|----------|------|------|-------|
| Double Dome | 0.75 | 0.73 | 0.75 | Clear |
| Double Dome | 0.75 | 0.51 | 0.42 | White |

VT values for domes are not certified due to NFRC Test Procedure limitations.

ROOF HATCHES

Engineered with gas struts to provide smooth, easy, one-hand operation, regardless of size. Automatic hold-open arm locks the cover in the open position to ensure safe egress. Overlapping cover design, full welded corners on cover and curb, EPDM rubber gasket, and fully insulated cover and curb ensure weather tightness and energy efficiency. Constructed with corrosion resistant materials to provide many years of trouble free, dependable service. Heavy gauge construction and positive latching mechanism to maintain building security.



FREE AND NATURAL FRESH AIR VENTILATION



No Wiring Required

Solar Smart eliminates the need for building power and wiring

Solar Smart Operator

A solar charged, remote operated, electric opener system as shown. Manual operators available

Automated Ventilation

Solar Smart's Remote has a number of programming options including thermostat operation

SOLAR SMART - AUTOMATED NATURAL VENTILATION

Solar Smart is designed to be used without any additional power and wiring from the building.

Solar Smart is a solar charged, remote operated, chain drive opener system – designed for the use in awning and hopper windows, and skylights. Solar Smart is designed to be used without any additional power and wiring from the building. The operator is powered by a battery pack that is recharged from the external solar panel; an optional AC adapter is included. Solar Smart was engineered to feature ultra low power consumption while in idle state, and in use.

The intelligence of Solar Smart extends to the handheld remote. Bidirectional feedback display is the most noteworthy to the end user including; Open / Close status displayed in percentage, operator and remote battery levels, rain sensor status and solar charge rate. The Remote includes automated thermostat control and other advanced programming options. A single remote can be paired with one or multiple operators within range.

VENTING SKYLIGHTS



5830 PVC / Aluminum Frame

NFRC RATED ENERGY STAR AAMA TESTED

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.41 | 0.25 | 0.57 |
| Temp / Lam | 0.41 | 0.25 | 0.55 |

Our most popular opening skylight frame. A PVC leg drops down into the light well which provides a flat surface to attach the chain operator hardware and aligns flush with interior drywall. The chain passes through a slot in the inner frame which allows the bug screen to cover the entire daylight without interruption. Designed for standard 1-1/2" thick curbing only. High Load glazing available.



3921 Aluminum Thermal-Break Frame

NFRC RATED AAMA TESTED PVC FREE

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.48 | 0.28 | 0.65 |
| Temp / Lam | 0.49 | 0.28 | 0.64 |

Thermal break frame features a resin core within the interior aluminum extrusion. Does not include an interior frame portion and does not require interior drywall to be cut back from the top of the curb. However, not having such prohibits a means for the operator chain to pass through, thus requiring wickets in the screen.

TRUTH MANUAL OPERATOR

Operated by a pole, or if in reach, a hand crank. Hand crank requires an angle drive unit which differs than the standard straight drive used with the pole. The pole can operate with an angle drive in some installations. Please indicate at time of order. Available in bronze and white.





Condensation Gutter

Roll formed with the dome, condensation is collected and directed to outside the flashing. No weep holes required.

Dome
3/16" High-Impact Acrylic
No screws go through the acrylic dome.

Stress Collar

Roll formed to the roof flashing, eliminating screws into the dome.

25 YEAR
TRANSFERABLE
WARRANTY

Flashing

.060 spun aluminum.
Unique forward sloping design fits 2/12 - 8/12 roof pitches. Available in Black and Mill finishes.

Light Pipe

Inner face consists of 99% pure Silver.
Virtually no light loss:

98%
Reflectivity

Max Recommended Tube Lengths

10" Model - 18 feet
13" Model - 20 feet
18" Model - 20 feet
21" Model - 20 feet

10" Model
150 sq ft coverage

13" Model
300 sq ft coverage

18" Model
500 sq ft coverage

21" Model
700 sq ft coverage



Curb Mount

Flat Roof

Trim Ring

Seamless construction of powder coated aluminum.

Diffuser

High-Impact Acrylic. Precise arc for exact light dispersion, no spotlighting or glare.



Clear Prismatic



Soft White

Accessories Available

- Exhaust Fan
- Adjustable Elbows
- Warehouse Trim Ring
- Transition Box for Suspended Ceilings
- Remote Controlled Dimmer

TUBULAR SKYLIGHTS

Crystalite's 10, 13, and 18 inch kits are provided standard with forward sloping flashing that is designed for 2/12 - 8/12 pitched roofs. Flat roof flashing is available as well and is standard for 21 inch kits. For the 13 and 21 inch kits, curb mounted flashing is available.

Hurricane Tested & Approved

The Crystalite Tubular Skylights were rigorously tested by the Hurricane Test Laboratory, Inc. in Riviera Beach, Florida and successfully passed to achieve the rating of "hurricane approved."



Tubular Skylights for Commercial Installations

A great solution for commercial installations. Along with providing the most potential daylight, it has the flexibility to be curb mounted, suspended from open ceilings, and optionally can be installed with a transition box diffuser for suspended ceiling applications common in office and educational building designs.





SOLAR ATTIC FANS

Vent More Air with Less Roof Penetrations

Solar Attic Fans are a simple and environmentally sensible solution that can protect your home and even save you money. Powered completely by free solar energy, this sleek and efficient attic vent is compact, quiet and powerful! The function of a solar attic fan is to improve attic air circulation resulting in a healthy, energy efficient home. Solar attic fans pull hot air and moisture out of your attic extending the life of your roof. In summer months, it keeps your attic cooler helping reduce the load on your HVAC system. In winter months, it prevents moisture build-up and ice damming. Our Solar Attic Fans are one of the best in their class with the highest standards for quality and functionality. We offer a Limited Lifetime Warranty – best in the industry.



Roof Mounted



Curb Mounted



Gable Vent Mount

KEY COMPONENTS

- Adjustable Solar Panel
- Aluminum Powder-Coated Housing
- Powerful, Quiet Motor
- Motor Isolation Bracket
- 5 Wing Fan Blade
- Protective Animal Screen
- Leakproof Aluminum Flashing

VENTING CAPACITY

- 16 watt: up to 1,185 cfms (1,300 sf)
- 32 watt: up to 1,560 cfms (2,200 sf)
- 48 watt: up to 1,880 cfms (2,825 sf)
- 65 watt: up to 2,105 cfms (3,350 sf)

AVAILABLE ACCESSORIES

- Thermal Snap Switch
- Fire Safety Cutoff Switch
- Garage Vent Kit
- Remote Solar Panel
- Tile Roof Flashing





CUSTOM SUNROOMS & SKYWALLS

Structurally engineered additions to your home or business.

Crystalite sunrooms are not a pre-built do-it-yourself system, but a custom constructed and structurally engineered system. Job specific load engineering is available.

The flexible design allows for any pitch from 2/12 to 12/12. Welded overhead; integrated with our structural 4000 series vertical wall, makes an airtight and watertight system. An integrated condensation gutter collects any moisture that may develop on the sunroom and drains to the outside via the weep hole system. Exterior weep holes are concealed and baffled behind the snap-caps at each rafter. Fasteners are concealed behind snap-on covers.





CUSTOM SKYLIGHTS & SLOPED GLAZING

WELDED FRAME SYSTEMS (NOT STICK BUILT)

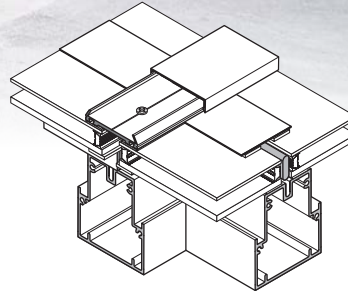
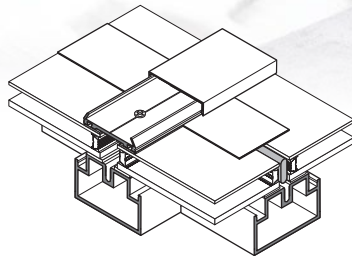
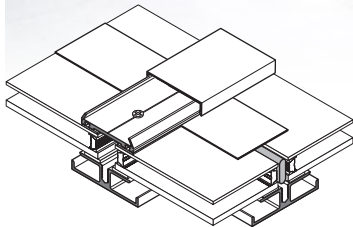
We have three basic frame weight options: light, medium, and heavy. All frames are structurally engineered to meet or exceed local building code requirements. Medium and heavy frames are designed to span greater distances than light frames. Light frames can be used in place of heavier frame types where supports such as rafters are in place.

You envision it, CrystaLite designs and builds it.

For residential, commercial and industrial applications, CrystaLite has designed and manufactured a wide range of custom skylights which can bring added dimensions to a building's aesthetics.

NAMI certified and NFRC rated for thermal performance. Compliant to the International Building Code; structural deflection limited to $L/175$ per ASTM E 330, air infiltration tested per ASTM E 283 at 6.24, and water penetration tested per ASTM E 331 up to 30.00 psf.





3962 Light Frame
For smaller sized projects.

ASTM TESTED PVC FREE

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.48 | 0.27 | 0.62 |
| Temp / Lam | 0.49 | 0.27 | 0.60 |

4843 Medium Frame
Most commonly used frame.

NFRC RATED ENERGY STAR ASTM TESTED PVC FREE

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.39 | 0.25 | 0.55 |
| Temp / Lam | 0.39 | 0.25 | 0.55 |

30258 Heavy Frame
For larger, self-supporting spans.

NFRC RATED ENERGY STAR ASTM TESTED PVC FREE

| LoE 366 | U-Factor | SHGC | VT |
|-------------|----------|------|------|
| Temp / Temp | 0.39 | 0.25 | 0.55 |
| Temp / Lam | 0.39 | 0.25 | 0.55 |





ALUMINUM RAILING

TESTED & CERTIFIED - Structural Engineering

Crystalite railing systems feature the thickest walled posts and rails on the market; while maintaining narrow sightlines for maximum visibility. Known for strength, weather resistance, and long lasting performance, aircraft grade 6063-T6 aluminum alloy is used in all posts and top rails.

Crystalite railings are structurally designed and stamped by an independent structural engineer. Crystalite railing systems have been rated to accommodate high wind loads and exposure ratings set forth by local building codes. Crystalite will select the appropriate post size and spacing to meet code requirements.

COLOR OPTIONS

The latest technology is used in applying a baked on gloss finish to our six standard colors, or any custom color selected.



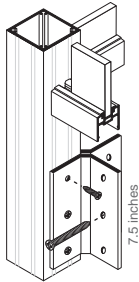
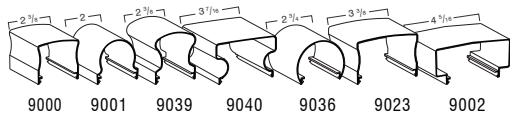
CUSTOM WOOD GRAIN FINISH

Powder base coat and vacuum applied graphics baked and absorbed into the aluminum.



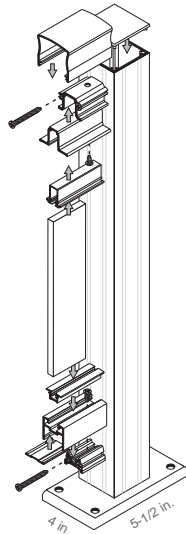
TOP RAILS

The 9000 profile is our most popular top rail. The 9039 profile is designed to act as a grab rail in hand rail situations. The 9002 and 9023 top rails can run over our 1-3/4" and 2-1/2" posts. 9023 and 9036 are designed to butt cleanly with our 3-1/2" post. The 9002 and 9023 rail caps are semi-flat top railing - popular by those that prefer the 2x4 look and feel.



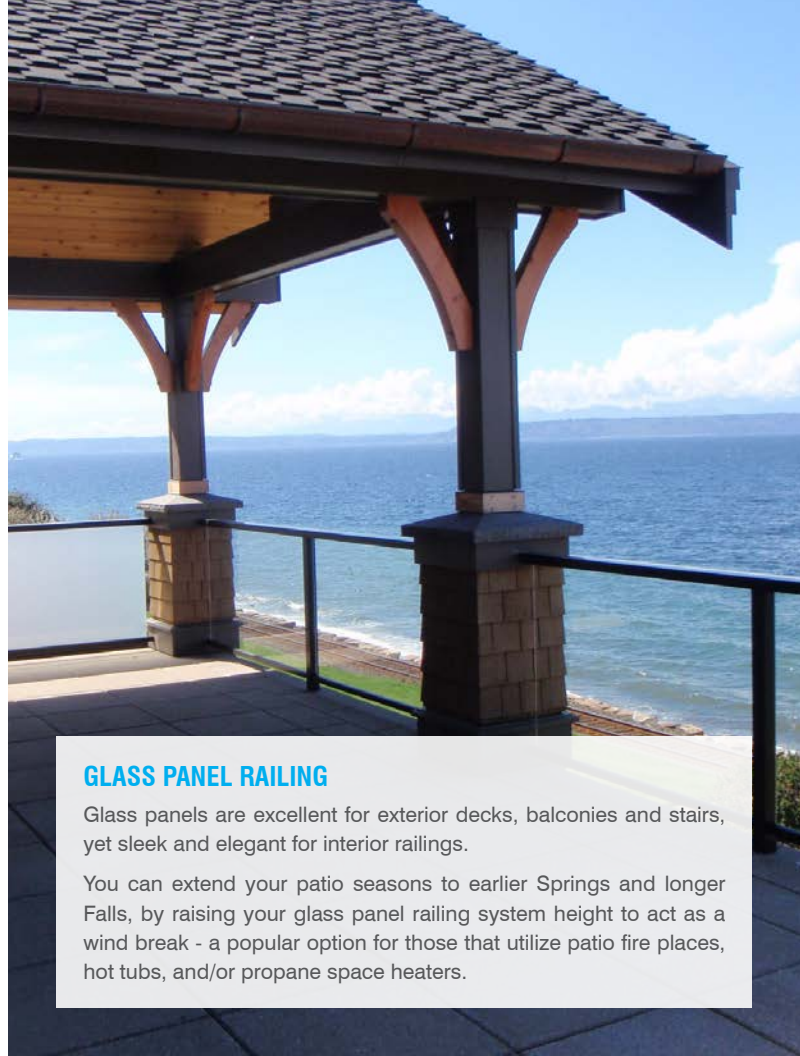
SIDE MOUNT CORNER BRACKET

Allows for single post in the corners of side mounted installations which reduces materials needed, thus cost; and allows for desired aesthetics of a single post. Bracket designed for 0 - 1/2" spacing. Accepts custom angles.



NEW FLAT TOP RAIL OPTION

We're excited to introduce our new flat "cocktail" style 9040 Top Rail. This has been a highly requested and long-anticipated addition to our railing series. The 9040 Top Rail is fully compatible with all of our infill options, including glass panels, pickets, and stainless cable.



GLASS PANEL RAILING

Glass panels are excellent for exterior decks, balconies and stairs, yet sleek and elegant for interior railings.

You can extend your patio seasons to earlier Springs and longer Falls, by raising your glass panel railing system height to act as a wind break - a popular option for those that utilize patio fire places, hot tubs, and/or propane space heaters.



INFINITY RAILING *Residential & Commercial*

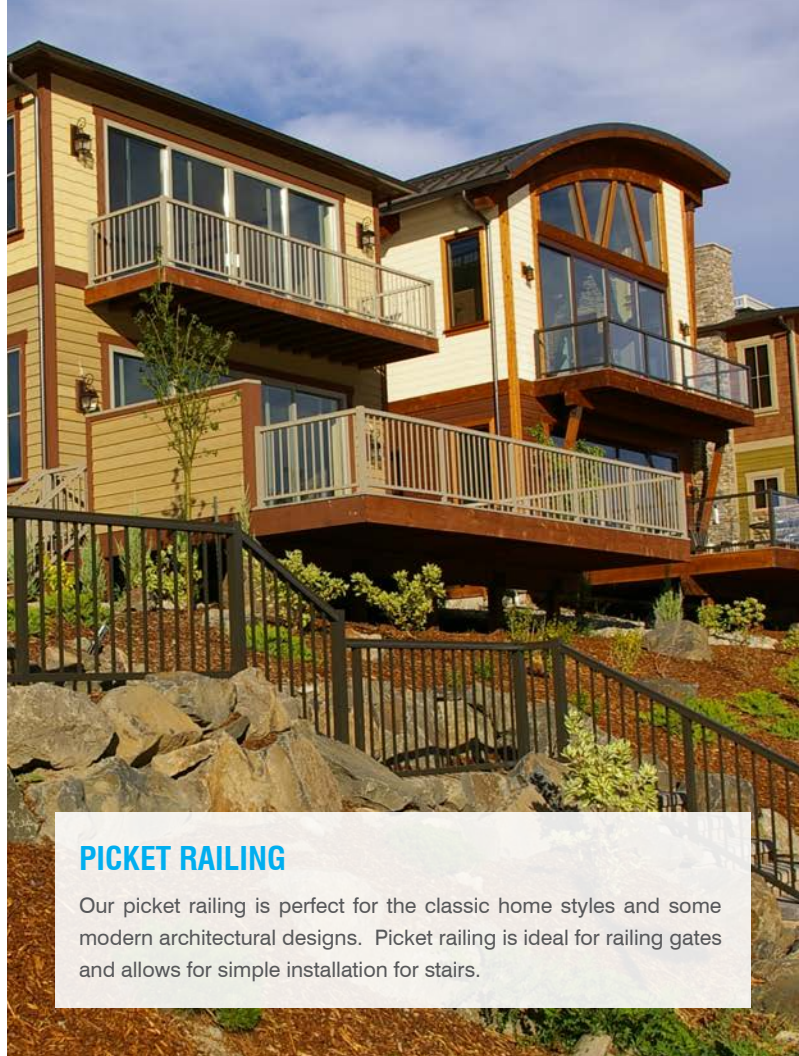
Enjoy an uninterrupted view with Infinity Railing.

Code Compliance: Glass guardrail systems have been tested by a certified independent test laboratory to meet or exceed IRC, IBC, and ORSC applicable code requirements. Railing system performance has been certified by an independent structural engineer. Test reports and engineering analysis is available upon request. All final decisions of code compliance are at the discretion of the local building authority. Always ensure approval by the local authority prior to installation.



STAINLESS CABLE RAILING

Made from strong and weather resistant 1/8" stainless steel cable, it is excellent for exterior rails and fences, yet sleek and elegant for interior railings. The special easy-to-use fittings are hidden in the end posts. Cable assemblies are available separate from our aluminum rail system as well.



PICKET RAILING

Our picket railing is perfect for the classic home styles and some modern architectural designs. Picket railing is ideal for railing gates and allows for simple installation for stairs.



SKIN SYSTEM - PATIO AND DECK COVER

Light Weight and Light Transmitting, Patio Coverings

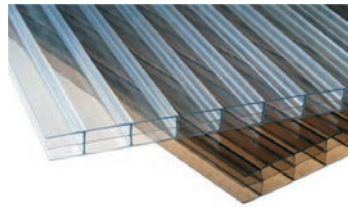
The CrystaLite Skin System has been designed to be a cost effective, light weight and weather tight glazing system for over decks, patios, or any non-heated space - great for greenhouses.

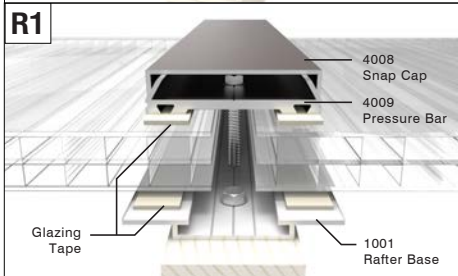
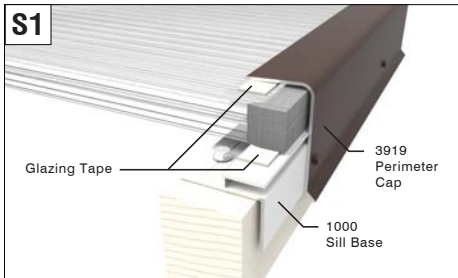
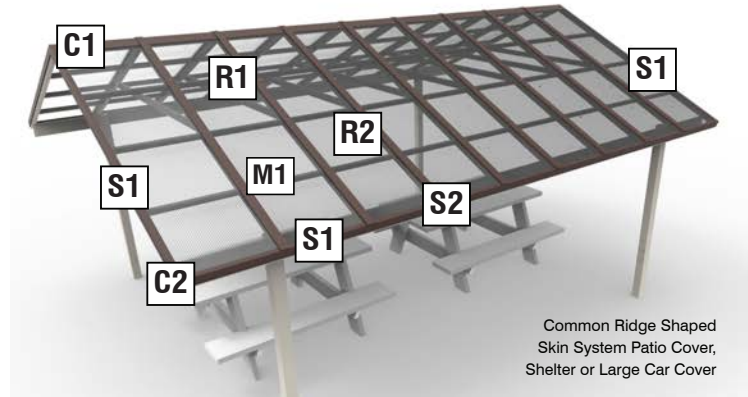
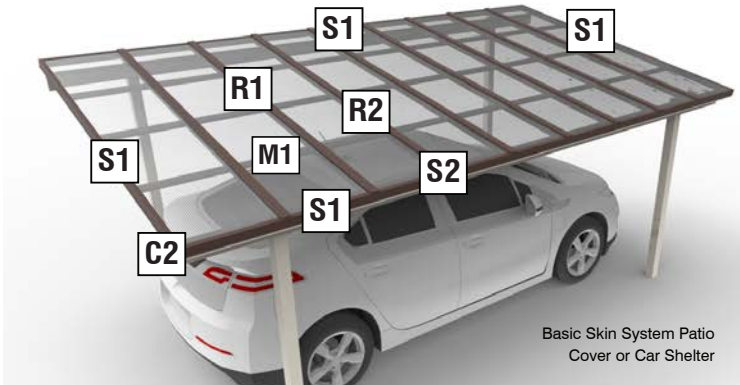
CrystaLite Skin System provides you with all the parts and pieces for a home owner do-it-yourself water proof overhead glazing system. Installation of the various parts and pieces are adaptable for your unique project. Its usage requires that a structurally supported framework, that meets local building requirements, be constructed in consideration of your areas snow and wind loads.

POLYCARBONATE MWS

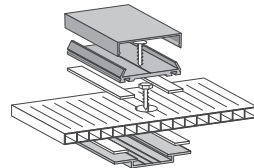
Virtually Indestructible Glazing

Multiwall Sheets of 6mm (1/4") and 10mm (3/8"), are standard thicknesses for patio covers. Our 16mm (5/8") is great for greenhouse applications, and has excellent energy values, for early Spring and late Fall gardening. MWS have exceptional thermal performance values.

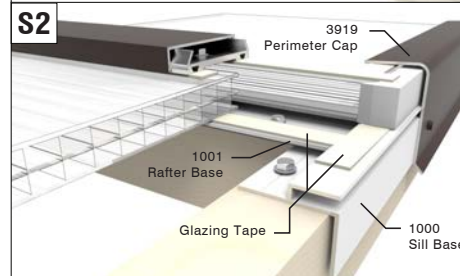
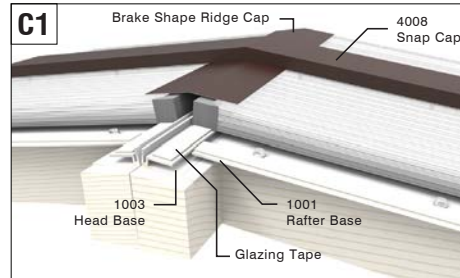




Full set of details and instructions available on our website at www.CrystaLiteInc.com.



An oversized hole (~1/2") can be drilled through the structured sheet to allow for proper fastening where the sheet spans over a rafter.



Run 1001 Rafter Bar over the Sill 1000 Bar. Also run the Pressure Bar and Snap Cap over the Perimeter Cap. Cut and bend end of 4008 Snap Cap to close off the open end. Use 100% Silicon to seal.





EVERETT MANUFACTURING PLANT

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(425) 259-6000 Fax (425) 258-6734

1-800-666-6065

SALEM DISTRIBUTION CENTER

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Salem, OR 97301
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SPOKANE DISTRIBUTION CENTER

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1-800-382-5403

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2026